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MORTON INTERNATIONAL - STORAGE TANK INVENTORY

July 25, 1990

MORTON INTERNATIONAL
SPECIALTY CHEMICALS GROUP - CINCINNATI
INVENTORY - FACILITY BULK STORAGE TANKS

PLANT CODE	TANK CODE	DATE REVISED	LOCATION	UNDERGR/ ABOVEGR	TANK CONTENTS	CAPACITY (Gallons)	YEAR INST.	MATERIAL OF CONSTRUCTION	TYPE OF CONTAINMENT	CONTAINMENT CAPACITY
CIN	1259A	3/9/89	WEST TANK FARM	A	RECOVERED METHYL CHLORIDE	2000	1981	CAR/ST	NONE	
CIN	1259B	3/9/89	WEST TANK FARM	A	RECOVERED METHYL CHLORIDE	2000	1981	CAR/ST	NONE	
CIN	1262	3/9/89	WEST TANK FARM	A	RECOVERED METHYL CHLORIDE	2000	1981	CAR/ST	NONE	
CIN	9001	3/9/89	WEST TANK FARM	A	PROPANE	1000	1974	CAR/ST	NONE	
CIN	9002	3/9/89	WEST TANK FARM	A	PROPANE	1000	1974	CAR/ST	NONE	
CIN	9003	3/9/89	WEST TANK FARM	A	PROPANE	1000	1974	CAR/ST	NONE	
CIN	9004	3/9/89	WEST TANK FARM	A	PROPANE	1000	1974	CAR/ST	NONE	
CIN	9005	3/9/89	WEST TANK FARM	A	PROPANE	1000	1974	CAR/ST	NONE	
CIN	9078	7/25/90	EAST TANK FARM	A	METHYLTIN SOL'N	9700	1982	FIBERGLASS	DIKE-CONC.	10771
CIN	9079	3/9/89	EAST TANK FARM	A	STANNIC CHLORIDE	6600	1979	LINED CAR/ST	DIKE-CONC.	21879
CIN	9080	3/9/89	EAST TANK FARM	A	STANNIC CHLORIDE	6600	1979	LINED CAR/ST	DIKE-CONC.	21879
CIN	9081	3/9/89	EAST TANK FARM	A	TO-26	48000	1974	STAIN/ST	DIKE-CONC.	65637
CIN	9082	3/9/89	EAST TANK FARM	A	TO-26	48000	1974	STAIN/ST	DIKE-CONC.	65637
CIN	9083	3/9/89	EAST TANK FARM	A	S.D. OLEIC ACID	25000	1972	ALUMINUM	DIKE-CONC.	20196
CIN	9084	3/9/89	EAST TANK FARM	A	METHYLTIN SOL'N	9500	1973	FIBERGLASS	DIKE-CONC.	11143
CIN	9085	3/9/89	EAST TANK FARM	A	METHYLTIN SOL'N	9500	1973	FIBERGLASS	DIKE-CONC.	11143
CIN	9086	3/9/89	EAST TANK FARM	A	2-MEO	10000	1951	ALUMINUM	DIKE-CONC.	10367
CIN	9087	3/9/89	EAST TANK FARM	A	METHYLTIN SOL'N	5000	1971	FIBERGLASS	DIKE-CONC.	12078
CIN	9088	3/9/89	EAST TANK FARM	A	METHYLTIN SOL'N	5000	1971	FIBERGLASS	DIKE-CONC.	12078
CIN	9089	5/24/90	EAST TANK FARM	A	ORGANOTIN WATER	7900	1978	FIBERGLASS	DIKE-CONC.	12507
CIN	9090	3/9/89	EAST TANK FARM	A	TUF WAX TREATMENT	10000	1949	CAR/ST	DIKE-CONC.	10098
CIN	9091	3/9/89	EAST TANK FARM	A	TUF WAX TREATMENT	10000	1949	CAR/ST	DIKE-CONC.	18580
CIN	9092	3/9/89	EAST TANK FARM	A	TUF WAX TREATMENT	10000	1949	CAR/ST	DIKE-CONC.	18580
CIN	9093	3/9/89	EAST TANK FARM	A	TUF WAX TREATMENT	15000	1949	CAR/ST	DIKE-CONC.	18580

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CIN	9101	3/9/89	MIDDLE TANK FARM	A	CYCLOHEXANONE CRACKING RES.	12000	1949	CAR/ST	DIKE-CONC.	77288
CIN	9102	3/9/89	MIDDLE TANK FARM	A	POLYETHYLENE GLYCOL BOTTOMS	12000	1951	CAR/ST	DIKE-CONC.	77288
CIN	9103	3/9/89	MIDDLE TANK FARM	A	PAVE BOND PS	10000	1952	CAR/ST	DIKE-CONC.	77288
CIN	9104	3/9/89	MIDDLE TANK FARM	A	PAVE BOND PS	10000	1952	CAR/ST	DIKE-CONC.	78428
CIN	9105	5/24/90	MIDDLE TANK FARM	A	PAVE 192	10000	1949	CAR/ST	DIKE-CONC.	78428
CIN	9106	3/9/89	MIDDLE TANK FARM	A	PAVE BOND LP	20000	1952	CAR/ST	DIKE-CONC.	78428
CIN	9107	7/25/90	MIDDLE TANK FARM	A	PAVE BOND AP SPEC	10000	1949	CAR/ST	DIKE-CONC.	78428
CIN	9108	3/9/89	MIDDLE TANK FARM	A	ASPHALT ADDITIVE PROCESSING KETTLE	10000	1952	CAR/ST	DIKE-CONC.	78428
CIN	9109	3/9/89	MIDDLE TANK FARM	A	RES. ETHYLENEAMINE	10000	1952	CAR/ST	DIKE-CONC.	77288
CIN	9110	5/24/90	MIDDLE TANK FARM	A	ETHOXYLATED POLYAMINE RESIDUAL	10000	1952	CAR/ST	DIKE-CONC.	77288
CIN	9111	3/9/89	MIDDLE TANK FARM	A	EMPTY	12000	1952	CAR/ST	DIKE-CONC.	77288
CIN	9112	5/24/90	MIDDLE TANK FARM	A	AMMONIA	15000	1979	STAIN/ST	DIKE-CONC.	14687
CIN	9113	3/9/89	MIDDLE TANK FARM	A	30% SODIUM SULFHYDRATE	9900	1976	FIBERGLASS	DIKE-CONC.	14671
CIN	9	3/9/89	MIDDLE TANK FARM	A	ASPHALT ADDITIVE	13000	1962	STAIN/ST	DIKE-CONC.	21658
CIN	9140	3/9/89	WEST TANK FARM	A	METHYL ESTER	10000	1952	CAR/ST	DIKE-CONC.	437240
CIN	9141	3/9/89	WEST TANK FARM	A	EMPTY	10000	1952	CAR/ST	DIKE-CONC.	437240
CIN	9142	3/9/89	WEST TANK FARM	A	EMPTY	25000	1952	CAR/ST	DIKE-CONC.	440965
CIN	9143	3/9/89	WEST TANK FARM	A	LIQUID LUBRICANT	25000	1951	CAR/ST	DIKE-CONC.	440965
CIN	9144	3/9/89	WEST TANK FARM	A	ALPHA OLEFINS	15000	1951	CAR/ST	DIKE-CONC.	439380
CIN	9145	3/9/89	WEST TANK FARM	A	CHOICE WHITE GREASE	15000	1951	CAR/ST	DIKE-CONC.	439380
CIN	9146	3/9/89	WEST TANK FARM	A	EMPTY	10000	1951	CAR/ST	DIKE-CONC.	439380
CIN	9147	3/9/89	WEST TANK FARM	A	PAVE BOND	10000	1951	CAR/ST	DIKE-CONC.	439380
CIN	9148	3/9/89	WEST TANK FARM	A	PAVE BOND LP	10000	1951	CAR/ST	DIKE-CONC.	439380
CIN	9149	3/9/89	WEST TANK FARM	A	MINERAL OIL	10000	1951	CAR/ST	DIKE-CONC.	439380
CIN	9150	3/9/89	WEST TANK FARM	A	PAVE BOND LP	10000	1951	CAR/ST	DIKE-CONC.	439380
CIN	9151	3/9/89	WEST TANK FARM	A	MINERAL OIL	10000	1951	CAR/ST	DIKE-CONC.	439380
CIN	9152	5/24/90	WEST TANK FARM	A	TM-181	19000	1989	STAIN/ST	DIKE-CONC.	439380
CIN	9160	7/25/90	WEST TANK FARM	A	TM-2496	10000	1956	ALUMINUM	DIKE-CONC.	19974
CIN	9162	5/24/90	WEST TANK FARM	A	TM-723	10000	1955	ALUMINUM	DIKE-CONC.	19974

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CIN	9163A	3/9/89	WEST TANK FARM	A	STEARIC ACID	5000	1965	STAIN/ST	DIKE-CONC.	436465
CIN	9163B	3/9/89	WEST TANK FARM	A	STEARIC ACID	5000	1965	STAIN/ST	DIKE-CONC.	436465
CIN	9164	3/9/89	WEST TANK FARM	A	CYCLOHEXANONE CRACKING RES.	10000	1951	CAR/ST	DIKE-CONC.	439380
CIN	9165A	3/9/89	WEST TANK FARM	A	STEARIC ACID	5000	1965	STAIN/ST	DIKE-CONC.	436465
CIN	9165B	3/9/89	WEST TANK FARM	A	STEARIC ACID	5000	1965	STAIN/ST	DIKE-CONC.	436465
CIN	9166	5/24/90	WEST TANK FARM	A	TM-694	10000	1958	ALUMINUM	DIKE-CONC.	14810
CIN	9200	3/9/89	WEST TANK FARM	A	EDA	7000	1957	ALUMINUM	DIKE-CONC.	30266
CIN	9201	3/9/89	WEST TANK FARM	A	ISOOCTANOL	7200	1954	NICKEL	DIKE-CONC.	30266
CIN	9301	3/9/89	WEST TANK FARM	A	EMPTY	80000	1973	CAR/ST	DIKE-EARTH	87097
CIN	9302	3/9/89	WEST TANK FARM	A	#2 FUEL OIL	80000	1973	CAR/ST	DIKE-EARTH	87097
CIN	9303	3/9/89	WEST TANK FARM	A	2 ETHYL HEXANOL	50000	1977	CAR/ST	DIKE-CONC.	55633
CIN	9304	3/9/89	WEST TANK FARM	A	PAVE BOND SPEC	50000	1977	CAR/ST	DIKE-CONC.	44829
CIN	9305	3/9/89	WEST TANK FARM	A	RES. TRIAMINES	50000	1977	CAR/ST	DIKE-CONC.	44829
CIN	9306	3/9/89	WEST TANK FARM	A	UNFINISHED WAX	50000	1977	CAR/ST	DIKE-CONC.	44829
CIN	9307	3/9/89	WEST TANK FARM	A	CYCLOHEXANONE CRACKING RES	50000	1977	CAR/ST	DIKE-CONC.	44829
CIN	9308	3/9/89	WEST TANK FARM	A	STEARIC ACID	50000	1977	STAIN/ST	DIKE-CONC.	44829
CIN	9309	3/9/89	WEST TANK FARM	A	PAVE BOND LP	50000	1977	CAR/ST	DIKE-CONC.	44829
CIN	BHN	3/9/89	BUILDING 10	U	#2 FUEL OIL	12000	1949	CAR/ST	NONE	
CIN	BHS	3/9/89	BUILDING 10	U	#2 FUEL OIL	12000	1949	CAR/ST	NONE	
CIN	FIRE	3/9/89	BUILDING 40	A	WATER	400000	1981	CAR/ST/LINED-GLAS	NONE	

FACILITY DIRECTORY

BUILDING NUMBER

USE

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| 1 | PROCESS - MANUFACTURE OF SYNTHETIC WAXES FOR PLASTIC PROCESSING. USED IN PVC & ABS PLASTICS. ALSO USED FOR PAPER DEFOAMERS AND THE SEAL IN THE CAP OF 2-LITER SOFT DRINK BOTTLES. |
| 2 | PROCESS - MANUFACTURE OF PETROLEUM ADDITIVES TO IMPROVE THE LUBRICATING PROPERTIES OF OILS AND GREASES. ASPHALT ADDITIVES PRODUCTION AND DRUMMING. |
| 3 & 3A | <p>PROCESS - MANUFACTURE OF ANTIOXIDANTS USED IN POLYOLEFINS AND ABS PLASTIC. GENERAL ELECTRIC MAJOR APPLIANCE GROUP USES OUR PRODUCT EXCLUSIVELY IN THEIR PLASTIC DISHWASHER TUB.</p> <p>MANUFACTURE OF ESTER INTERMEDIATES FOR THE ORGANOTIN STABILIZERS.</p> <p>MANUFACTURE OF ORGANOTIN STABILIZERS FOR RIGID PVC PLASTICS. APPLICATIONS INCLUDE PIPE, GUTTERS, SIDING, FITTINGS, VALVES, BOTTLES, AND SHEET.</p> <p>MANUFACTURE OF LUBRICATING STABILIZERS USED PRIMARILY FOR PIPE AND SOME SIDING.</p> |
| 4 | PACKAGING AREA FOR THE LIQUID ORGANOTIN STABILIZERS. MAJOR DOMESTIC PACKAGE IS BULK SHIPMENT IN TANK TRUCKS OR BULK BINS. THESE BINS ARE RETURNED AND REUSED, ELIMINATING THE DISPOSAL OF DRUMS. SECOND FLOOR HAS THE PRODUCTION SUPPLIES STORAGE AREA. |

- 5W PROCESS AREA FOR AN INTERMEDIATE LUBRICANT FOR THE LUBRICATING STABILIZER PRODUCT.
- 5E RESEARCH AND DEVELOPMENT - PLASTICS COMPOUNDER FOR PREPARING BLENDS OF EXPERIMENTAL PRODUCTS FOR FIELD TESTING.
- 6 PROCESS - MANUFACTURE OF ORGANOPHOSPHORUS COMPOUNDS. THESE UNIQUE MATERIALS FIND SPECIAL APPLICATIONS IN SILICONE CAULKS, EPOXIES, AND COATINGS.
- 7 & 7A MAINTENANCE - SPARE PARTS AND SUPPLIES STORAGE.
- 8 EMISSION CONTROL FOR ASPHALT ADDITIVE PROCESS TANKS.
- 9 ENGINEERING - OFFICE AREA AND LOCATION OF THE PLANT PROCESS COMPUTER.
- 10 PLANT UTILITIES - THE BOILER HOUSE HANDLES THE PLANT UTILITIES. STEAM, COMPRESSED AIR AND ELECTRIC DISTRIBUTION OCCURS FROM THIS BUILDING.
- 11 & 12 PROCESS - MANUFACTURE OF THE ORGANIC TIN INTERMEDIATE USED TO MANUFACTURE THE ORGANOTIN STABILIZER.
- 12C PROCESS - MANUFACTURE OF THE INORGANIC TIN INTERMEDIATE FOR USE IN BUILDINGS 11 AND 12.
- 14 MAINTENANCE - SHOP AREA FOR REPAIR WORK.
- 15 MAINTENANCE - OFFICES, PUMP REPAIR STATION, ELECTRICAL MAINTENANCE SHOP AND SUPPLIES.

- 16 PROCESS - ISOLATE AND PACKAGE THE LUBRICATING STABILIZER PRODUCTS.
- 18 ADMINISTRATIVE - FIRST FLOOR IS LOCKER ROOMS, CAFETERIA, TRAINING AND COMMUNICATION CENTER, AND MEDICAL SERVICES. SECOND FLOOR IS OFFICES FOR SALES, MARKETING, ACCOUNTING, HUMAN RESOURCES, AND PURCHASING.
- 19 RESEARCH AND DEVELOPMENT/MANUFACTURING OFFICES/QUALITY ASSURANCE - THE BUILDING IS PRIMARILY LABORATORIES FOR RESEARCH, ANALYTICAL, ENVIRONMENTAL, APPLICATIONS AND QUALITY ASSURANCE, AND OFFICES FOR RESEARCH AND DEVELOPMENT, QUALITY ASSURANCE AND MANUFACTURING.
- 20 WAREHOUSE - TO STORE RAW MATERIAL DRY GOODS.
- 21 WAREHOUSE - TO STORE PRODUCTION PACKAGING MATERIALS.
- 22 WAREHOUSE - THIS IS THE RECEIVING OFFICE AND LOCATION FOR PRODUCT TRANSFER FROM PRODUCTION TO THE MAIN WAREHOUSE, BUILDING 40.
- 23 PRODUCTION - FIRST FLOOR IS THE BULK BIN CLEANING AREA. SECOND FLOOR IS THE PRODUCTION SHIFT SUPERVISOR'S OFFICE.
- 24 COVERED STORAGE BUILDING - DRUMMED RAW MATERIALS KEPT OUT OF THE WEATHER.
- 25 UTILITY - RECIRCULATING WATER COOLING TOWER AND PUMPING STATION FOR REDUCED WATER USAGE.
- 26 WAREHOUSE - USED BY RESEARCH AND DEVELOPMENT.

- 27 DEVELOPMENT - LABORATORY AND SEMI-WORKS BUILDING USED FOR THE SCALE UP FROM RESEARCH LABORATORY TO INITIAL COMMERCIAL AND TEST QUANTITIES. PROCESS DEVELOPMENT IS CONDUCTED HERE.
- 28 RAW MATERIAL PACKAGING FACILITY.
- 30 WAREHOUSE - MAINTENANCE STORES LARGER CRITICAL SPARE PARTS HERE.
- 31 GROUND WATER PUMPING STATION.
- 37 FIRE PROTECTION PUMPING STATION WITH 400,000 GALLON RESERVE WATER TANK FOR THE SPRINKLER SYSTEM.
- 39 SITE ENTRY CONTROL PERSONNEL ARE HERE DURING THE DAY FOR CONTROL OF EGRESS.
- 40 WAREHOUSE - FINISHED PRODUCT STORAGE AND LOADING OF TRUCKS FOR SHIPMENT.